

CLAIMS:

1 1. A method for flattening non-flat areas of screening
2 material of a screen assembly, the non-flat areas of screening
3 material between lines of glue gluing together a plurality of
4 layers of screening material, the plurality of glued-together
5 layers of screening material secured to a frame, the method
6 comprising

7 mounting the screen assembly on a vibratory
8 separator, the vibratory separator located in an environment
9 at an ambient temperature,

10 vibrating the screen assembly with the vibratory
11 separator for a period of time,

12 feeding material to be treated onto the screen
13 assembly, the material to be treated at a material temperature
14 above the ambient temperature,

15 the period of time of such a temporal length and the
16 material temperature of such a temperature to effect
17 flattening of the non-flat areas of screening material.

18 2. The method of claim 1 wherein the material temperature is
19 at least five degrees above the ambient temperature.

20 3. The method of claim 1 wherein the material temperature is
21 at least 100°F.

22 4. The method of claim 1 wherein the material is drilling
23 fluid from a drilled wellbore, the drilling fluid having solid
24 drilled cuttings therein.

25 5. The method of claim 1 wherein the glue is cured moisture-
26 curing hot melt glue.

27 6. The method of claim 1 wherein the glue is applied in a
28 pattern.

29 7. The method of claim 1 wherein the frame is comprised of
30 two ends, each end connected to and spaced-apart by one of two
31 spaced-apart sides.

32 8. The method of claim 7 wherein the ends and sides are

tubular members.

1 9. The method of claim 7 wherein the two spaced-apart sides
2 include a first side and a second side and the frame includes a
3 plurality of spaced-apart crossmembers, each crossmember extending
4 from the first side to the second side.

10. The method of claim 1 wherein the glued-together layers
of screening material are secured to the frame with epoxy.

11. The method of claim 1 wherein the glued-together layers
of screening material are secured to the frame with glue.

12. The method of claim 9 wherein the glued-together layers
of screening material are secured to the spaced-apart crossmembers
with epoxy.

13. The method of claim 9 wherein the glued-together layers
of screening material are secured to the spaced-apart crossmembers
with glue.

14. The method of claim 9 wherein at least one of the
plurality of spaced-apart crossmembers has at least one notch for
receiving a portion of an upstanding member of a deck of the
vibratory separator, the method further comprising

installing the screen assembly on the deck of the
vibratory separator with a portion of the upstanding member
projecting into the at least one notch.

15. The method of claim 1 wherein the plurality of layers of
screening material comprises at least a lower layer of coarse mesh
and at least one layer of fine mesh.

16. The method of claim 15 wherein the non-flat areas of
screening material comprise portions of the at least one layer of
fine mesh.

17. A method for mounting a screen assembly on a deck of a
vibratory separator, the deck having an upstanding member
projecting above the deck, the screen assembly having a frame with
at least one crossmember, the frame supporting screening material,
5 the at least one crossmember having a notch therein for receiving

a portion of the upstanding member, the method comprising
emplacing the screen assembly on the deck with a
portion of the upstanding member in the notch.

1 18. A screen assembly for a vibratory separator, the
2 vibratory separator having a deck for supporting the screen
3 assembly, the deck having an upstanding member with a portion
4 projecting above the deck, the screen assembly comprising

5 a frame,
6 screening material secured to the frame, the
7 screening material comprising at least one layer of screen
8 mesh, the at least one layer of screen mesh connected to the
9 frame,

10 the frame having at least one crossmember,
11 the at least one crossmember having at least one
12 notch therein, and

13 a portion of the upstanding member of the deck
14 receivable in the notch.

15 19. The screen assembly of claim 18 wherein

16 the at least one layer of screening mesh comprising
17 a plurality of layers of screen mesh glued together.

18 20. The screen assembly of claim 18 wherein the at least one
19 notch is two spaced-apart notches, each notch positioned so that
20 one of the two notches can receive the portion of the upstanding
21 member when the screen assembly is emplaced on the deck.

22 21. Any invention disclosed herein.